

SIAM-UKIE ACTIVITY REPORT 2020-2021

August 24, 2021

Background

The SIAM UKIE Section was formed in 1996 by the Society of Industrial and Applied Mathematics (SIAM) with the scope to promote and support applied and industrial mathematics in the UK and the Republic of Ireland.

Officers

The current SIAM UKIE officers are

- President: Prof. Jennifer Scott (University of Reading), April 1, 2021–March 31, 2023;
- Vice-President: Prof. Kirk Soodhalter (Trinity College Dublin), April 1, 2021–March 31, 2023;
- Secretary/Treasurer: Dr Francesca Arrigo (University of Strathclyde), April 1, 2020–March 31, 2022.

Elections to nominate the new President and Vice-President were held in March 2021. 166 out of 535 members voted for a participation rate of 31%.

A list of past officers is available at <http://www.siam.org/sections/siamukie/archive.php>.

Members

Membership of the Section is free and automatic for all SIAM members whose residence or principal place of work or study is in the UK or Republic of Ireland.

Members can subscribe to the Section's mailing list at this link <http://lists.siam.org/mailman/listinfo/siam-ukie>.

Fellows

This year, SIAM UKIE member Prof. Jennifer A. Scott (University of Reading) was elected SIAM Fellow.

Students

There are currently 17 SIAM UKIE Student Chapters at the following universities: University of Bath (England), University of Cambridge (England), Cardiff University (Wales), Dublin area (Ireland), Heriot-Watt/Edinburgh Universities (Scotland), Imperial College London (England), National University of Ireland Galway (Ireland), University of Limerick (Ireland), University of Liverpool (England), University of Manchester (England), University of Nottingham (England), University of Oxford (England), University of Reading (England), University of Sheffield (England), University of Southampton (England), University of Strathclyde (Scotland), University of Warwick (England), The new Student Chapter at the University of Sheffield has been founded in 2021 and held its inaugural conference in June 2021.

All SIAM UKIE Student Chapters are very active, organizing their own local events and activities. Activity reports are available at https://outreach.mathstat.strath.ac.uk/siamukie/chapters_activity.html or on the Chapter's websites (see <https://outreach.mathstat.strath.ac.uk/siamukie/chapters.html>).

In addition to these activities, one of the chapters hosts an annual SIAM National Student Chapter Conference (SNSCC) since 2012. These conferences allow students to interact across universities. The 9th SNSCC was organized by the Student Chapter at the University of Oxford. The event, which was meant to take place in the Summer of 2020 but had to be postponed due to the covid-19 pandemic, took place virtually on 14-15 June 2021. The generous support of SIAM significant covered Zoom and Gather Town expenses and Student talks and poster prizes.

Members of five UKIE Student Chapters received SIAM Certificates of Recognition 2021.

- Alvaro Torras Casas, Cardiff University Student Chapter
- Edward Donlon, Dublin Area Student Chapter
- Kleber Oliveira, University of Limerick Student Chapter
- Michael Connolly, University of Manchester Student Chapter
- Hannah-May D'Ambrosio, University of Strathclyde Student Chapter

Their names were publicized on the SIAM UKIE digest in June 2021.

Website, blog and social media activities

Since April 2020, the SIAM UKIE Section website has moved to <https://outreach.mathstat.strath.ac.uk/siamukie/>, including the WordPress blog <https://siamukie.wordpress.com> which by now is an established outlet for our Section members to publish their own posts, including the possibility to upload photos, videos, and other multimedia content as appropriate. Each post is under editorial review and edited before publication. Also, since 2016, the Section has had its own Twitter account http://twitter.com/SIAM_UKIE. This account currently has 410 followers (up from 324 last year) and is mainly used to draw attention to new blog posts and for retweeting UKIE relevant news.

Digest

The SIAM UKIE Section continues to send monthly digest to all its members compiled from members submissions and other relevant items found by the officers. These newsletters successfully serve the purpose of “staying in touch” with our members and to further facilitate the dissemination of information among members from different areas in the UK and the Republic of Ireland. The monthly digest has been particularly well received from students and early career members of the community.

Annual Sectional Meeting

The 21st Anniversary Meeting of the UK and Republic of Ireland Section of SIAM was held virtually on January 8, 2021. The local organizers were the Section's Officers (Prof. F. Tisseur, Prof. S. Mitchell, and Dr. F. Arrigo). The event featured one high-profile keynote by Prof. James Gleeson (University of Limerick) entitled “*Branching processes as models of cascade dynamics on networks*” and was followed by the Section's Business Meeting. A total of 47 members attended the virtual meeting. Details can be found <https://siamukie.wordpress.com/2020/12/18/siam-ukie-annual-e-meeting-2021-registration-open/>

Other Sponsored Activities

None this year. Due to the covid-19 pandemic, the majority of the events that the Section normally sponsors have either been cancelled or postponed.

Planned Future Activities

The 26th SIAM UKIE Annual Meeting will be held on January 7, 2022 at Trinity College Dublin, with the possibility for attendees to join remotely via zoom. The local organization team is led by Prof. Kirk Soodhalter.

The Annual Meeting will feature five distinguished speakers, and poster presentations from Student Chapter representatives. The confirmed speakers are: Marco Marletta (Cardiff University), Valeria Simoncini (Università di Bologna), Sarah Dance (University of Reading), John Pearson (University of Edinburgh, Early Career Speaker), and David Barrett (Google, Industrial Speaker).

As in previous years, the Section will invite SIAM UKIE Student Chapters to delegate student representatives to this meeting, and we will offer some funding for the travel expenses of students with a poster presentation. There will be no registration fee for this meeting.

The Section will continue to promote its aims by providing support for other initiatives and events that bring together SIAM (student) members from different fields in the UK and the Republic of Ireland, including:

- Three prizes for the best student talks/posters at the British Applied Mathematics Colloquium (BAMC), Loughborough University, 11th-13th April 2022: <https://bamc2022.lboro.ac.uk/>;
- Sponsorship for the 10th Annual SIAM National Student Chapter Conference; Host institution TBC.
- Sponsorship of SIAM speakers at up to two other scientific meetings, as requested.

New Elections

Elections for SIAM UKIE Secretary/Treasurer role will be held beginning of 2022.

Prof. Jennifer Scott (President)
Prof. Kirk Soodhalter (Vice-President)
Dr Francesca Arrigo (Secretary/Treasurer)

August 27, 2021